

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF
A PORTION OF THE SUBDIVISIONAL LINES,

IN

TOWNSHIP 30 SOUTH, RANGE 21 EAST,

OF THE SALT LAKE MERIDIAN
IN THE STATE OF UTAH

EXECUTED BY

Scott A. Burkhardt
Cadastral Surveyor

Under Special Instructions dated and approved **April 22, 2013**, which provided for the surveys included under Group Number **1224**, and Assignment Instructions dated **April 22, 2013**.

Survey Commenced, **April 23, 2013**
Survey Completed, **April 23, 2013**

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INDEX DIAGRAM

TOWNSHIP 30 SOUTH, RANGE 21 EAST, SALT LAKE MERIDIAN, UTAH

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TOWNSHIP 30 SOUTH, RANGE 21 EAST, SALT LAKE MERIDIAN, UTAH

The following field notes are those of the dependent resurvey of a portion of the subdivisional lines, in T. 30 S., R. 21 E., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

Surveyed by		Retr. or Resurveyed by	
SOUTH BOUNDARY (Sixth Standard Parallel South)			
All	E. Buettner	1884	
All			S.P. Stewart & E.H. Anderson 1911
EAST BOUNDARY			
All	E. Buettner	1884	
All			T.C. Rathbone, etal. 1916
All			C.F. Moore & R.C. Yundt 1927
WEST BOUNDARY			
All	E. Buettner	1884	
All			T.C. Rathbone, etal. 1916
All			R.C. Yundt 1927
NORTH BOUNDARY			
All	E. Buettner	1884	
Portion			T.C. Rathbone, etal. 1916
Portion			C.F. Moore & R.C. Yundt 1927
SUBDIVISION			
Portion	T.C. Rathbone, etal.	1916	
Portion	C.F. Moore & R.C. Yundt	1927	C.F. Moore & R.C. Yundt 1927

TOWNSHIP 30 SOUTH, RANGE 21 EAST, SALT LAKE MERIDIAN, UTAH

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1224, dated April 22, 2013.

The direction of each line is with reference to the true meridian, determined by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the *Standards for the Positional Accuracy of Cadastral Surveys when using Global Navigation Satellite Systems (GNSS)*, dated February 23, 2009. Trimble model R8 GPS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and a search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic Control Network was derived from GPS static observations, post processed by the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): DI3419 P012 MONTICELLOUT2006 CORS ARP, DH6916 MC04 MESA CNTY 04 COOP CORS ARP, DL3642 MC09 NUCLA CORS ARP, DL3522 MC06 MACK CORS ARP, DE6238 MC01 MESA CNTY COOP CORS ARP, DH6918 MC05 MESA CNTY 05 COOP CORS ARP, DL3585 MC10 MONTROSE CORS ARP, DL2316 MC07 DEBEQUE CORS ARP, and DL3478 R301 CRAWFORD CORS ARP.

The geographic position of the 1/4 section corner of sections 17 and 20, T. 30S., R. 21E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **38°10'13.226" N.**,
Longitude: **109°38'32.405" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,
Network Accuracy = 0.200 meter at 95% confidence.

The geographic position of the 1/4 section corner of sections 16 and 21, T. 30S., R. 21E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **38°10'13.223" N.**,
Longitude: **109°37'26.521" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,
Network Accuracy = 0.200 meter at 95% confidence.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 30 SOUTH, RANGE 21 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 30 S., R. 21 E., Salt Lake Meridian, Utah

The Reestablishment of the Survey Executed by
T.C. Rathbone, etal. in 1916

Beginning at the 1/4 section corner of sections 20 and 21, T. 30 S., R. 21 E., monumented with an iron post, 1 inch diameter, firmly set, projecting 14 inches above the ground, with brass cap marked as described in the official record of the 1916 survey.

N. 0°01.4'W., between sections 20 and 21.

- 39.968** Point for the corner of sections 16, 17, 20, and 21, at proportionate distance; there is no remaining evidence of the 1916 iron post or witness mound of stone.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 28 inches in the ground, with magnet at base, in a collar of stone, 2 feet diameter, to cap, with aluminum cap marked

T30S R21E

S17	S16
S20	S21

2013

Set a steel fence post southwest of the corner.

Corner falls on a bench of river coble, east of Pasture Creek.

From the 1/4 section corner of sections 16 and 21, monumented with an iron post, 1 inch diameter, firmly set, projecting 14 inches above the ground, with brass cap marked as described in the official record of the 1916 survey.

With an embedded witness mound of stone, 2 feet base, 1 1/2 feet high, north of the corner.

S. 89°59.5'W., between sections 16 and 21.

- 39.854** The corner of sections 16, 17, 20, and 21.

N. 0°08.6'W., between sections 16 and 17.

- 39.969** The 1/4 section corner of sections 16 and 17, determined at the remains of the 1916 iron post, 1 inch diameter, firmly set but rusted off at ground level, with no remains of the 1916 brass cap.

At the corner point

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 30 SOUTH, RANGE 21 EAST, SALT LAKE MERIDIAN, UTAH
CHAINS

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 29 inches in the ground, with magnet at base, with aluminum cap marked

T30S R21E
1/4
S17 | S16
2013

From the corner of sections 16, 17, 20, and 21.

N. 89°59.1'W., between sections 17 and 20.

39.884 The 1/4 section corner of sections 17 and 20, monumented with an iron post, 1 inch diameter, firmly set, projecting 15 inches above the ground, with brass cap marked as described in the official record of the 1916 survey.

UNITED STATES
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FIELD ASSISTANTS

Name	Capacity
Phil Freiberg	Survey Technician

CERTIFICATE OF SURVEY

I, *Scott A. Burkhardt, Cadastral Surveyor*, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the **April 22, 2013**, I have *dependently resurveyed a portion of the subdivisional lines, in Township 30 South, Range 21 East*, of the **Salt Lake Meridian**, in the State of **Utah**, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

9/19/14

Date

Scott A. Burkhardt

Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Salt Lake City, Utah

The foregoing field notes of the *dependent resurvey of a portion of the subdivisional lines, in Township 30 South, Range 21 East, Salt Lake Meridian; Utah*, executed by *Scott A. Burkhardt, Cadastral Surveyor*, having been critically examined and found correct, are hereby approved.

September 30, 2014

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah